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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,311	06/04/2002	Stefan Eggers	2059	1100

7590 08/29/2003

Striker Striker & Stenby
103 East Neck Road
Huntington, NY 11743

EXAMINER

GURZO, PAUL M

ART UNIT	PAPER NUMBER
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2881

DATE MAILED: 08/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/088,311

Applicant(s)

EGGERS ET AL.

Examiner

Paul Gurzo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 June 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) Z.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayata (5,726,739), and further in view of Maddox (4,095,881).

Regarding claim 12, 739 teaches an exposure apparatus comprising a lamp (1), a condensor device (5), a first wavelength dependent mirror layer (3) located within an exposure beam path of the lamp to divide the beam path into first UV portion for exposure and a second portion of visible and IR light (col. 3, lines 44-56). They also teach a second mirror (11) located in the beam path, a viewing screen (14), and an imaging optics (13) located between the screen and mirror to image the lamp on the viewing screen (col. 4, lines 55-58 and Fig. 1).

739 does not explicitly teach that the second mirror reflects the light portion back to the first mirror. However, 881 teaches that the IR portion of the rays is passed through the mirror (21), to a reflector (22) and from there is reflected back to the light source (lamp) (10) (col. 3, lines 60-66 and Fig. 6). The reflector (22) will act in the same way as the second mirror in that it successfully reflects the desired light back to the lamp. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to reflect the light back to the lamp because it will aid in warming the lamp to save electrical energy to operate the lamp by providing a more efficient illumination system.

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Regarding claim 13, 881 teaches that the reflector (22) is hyperbolic (col. 3, line 65 and Fig. 6).

Regarding claim 14, 739 teaches an exposure method for light outcoupling comprising the steps of penetrating at least one mirror layer (3) by radiation within an exposure beam path of a lamp into a first and second spectral portion (col. 3, lines 45-56 and Fig. 1) and imaging the light portion on a viewing screen (14) (col. 4, lines 55-58). They do not explicitly teach that the second mirror reflects the light portion back to the first mirror. However, 881 teaches that the IR portion of the rays is passed through the mirror (21) to a reflector (22) and from there is reflected back to the light source (lamp) (10) (col. 3, lines 60-66 and Fig. 6). The reflector (22) will act in the same way as the second mirror in that it successfully reflects the desired light back to the lamp, and this will lead to the desired adjustment of the lamp (10).

Regarding claims 15 and 16, 881 teaches the use of a heat sink that will absorb the spectral portion (col. 1, lines 15-23). It is obvious that this heat sink can be located in the lamp housing.

Regarding claim 17, 739 teaches a condensor (5) for bundling the emitted light and the claimed first and second spectral portions as stated above. They also teach imaging on a viewing screen (col. 4, lines 55-58). Further, 881 teaches the desired reflection by the second mirror (22) in a direction back towards the first mirror (21).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kitagishi et al. (5,537,168)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Gurzo whose telephone number is (703) 306-0532. The examiner can normally be reached on M-Thurs. 7:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Lee can be reached on (703) 308-4116. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

PMG
August 19, 2003


BRUCE ANDERSON
PRIMARY EXAMINER